**BRUHATH BANGALORE MAHANAGARA PALIKE**

**ME OF WORK:** Improvements and RE-Ashalting 3rd Main Road Kempegowda Nagara and Surrounding Dasarahalli Ward No 15..

## Modified Estimate

**Est.Cost: 35.67 Lakhs**

| Description Of Item | Unit | No | L | B | D | Qty | | Amount |
|---|---|---|---|---|---|---|---|---|
| Removing & Refixing stone slabs of drains and pointing in C.M (1:3).SR Rate 2018-19 P 27 I 5.33 | | | | | | | | |
| | | | | | | | | |
| | | | | | **Qty executed up to 125%** | **0.00** | **116.31** | **0.00** |
| KSRRB 300-Excavation for road, drains and similar works KSRRB 300-1.Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto. In meters and an average lift upto 0.5m ,exf-avated surface leveled and sides beatly dressed the disposed earth to be levelled neatly after breaking of cloads complete as per specifications .Sr Rate 2018-19 P 158 I 21.3 | | | | | | | | |
| **Chamber Corrections** | | | | | | | | |
| 3rd Main Road Kempegowda Nagara | **Cum** | 1 | 384.0 | 0.90 | 0.30 | 103.68 | | |
| 5th Cross Road | | 1 | 101.0 | 0.90 | 0.30 | 27.27 | | |
| 6th-A Cross Road | | 1 | 79.4 | 1.20 | 0.30 | 28.58 | | |
| 7th Cross Road | | 2 | 111.0 | 1.10 | 0.30 | 73.26 | | |
| Eagle Bakery Road | | 1 | 301.0 | 1.00 | 0.30 | 90.30 | | |
| 6th Cross Road | | 1 | 110.0 | 5.12 | 0.30 | 168.96 | | |
| | | | | | Total Qty : | 492.05 | | |
| | | | | | | | | |
| | | | | | Shedule B Qty : | **520.00** | | |
| | | | | | **Qty executed up to 125%** | **492.05** | **139.57** | **68675.98** |
| KSRB 4-1.1: Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications Specification No. KBS 4.1,4.2 P 13 I No 4.6 | | | | | | | | |
| **Bhuvaneshwari Nagar** | | | | | | | | |
| **For CC Road** | | | | | | | | |
| | | | | | Shedule B Qty : | **150.00** | | |
| | | | | | **Qty executed up to 125%** | **0.00** | **6005.95** | **0.00** |
| Providing and fixing RCC precast slabs of .10m thick of CC M20 with 20mm and down size graded granite metal,machine mixed, including cost of all material,labour,HOM of machinery ,curing complete as per specifications . | | | | | | | | |
| | | | | | | | | |
| | | | | | **Qty executed up to 125%** | **0.00** | **1687.68** | **0.00** |
| Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. do - of size 450 x 200 x 400 mm P 27 Item No 29.1. | | | | | | | | |
| | | | | | **Qty executed up to 125%** | **0.00** | **473.26** | **0.00** |
| KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete I masonry I asbestos cement sheet I plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. | | | | | | | | |
| | | | | | **Qty executed up to 125%** | **0.00** | **42.92** | **0.00** |
| KSRB 15-19.2 : Providing and applying spray painting (excluding priming coat ) over concrete I masonry I asbestos cement sheet I plastered surfaces with flat wall paint of approved brand to give even shade after Gleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. KSRB 15-19 2 do - spray painting in two coat. | | | | | | | | |
| | | | | | **Qty executed up to 125%** | **0.00** | **98.60** | **0.00** |

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KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 P 155 I 20.18

| Chamber Corrections | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3rd Main Road Kempegowda Nagara | Cum | 1 | 384.0 | 0.90 | 0.20 | 69.12 | | |
| 5th Cross Road | | 1 | 101.0 | 0.90 | 0.20 | 18.18 | | |
| 6th-A Cross Road | | 1 | 79.4 | 1.20 | 0.20 | 19.06 | | |
| 7th Cross Road | | 2 | 111.0 | 1.10 | 0.20 | 48.84 | | |
| Eagle Bakery Road | | 1 | 301.0 | 1.00 | 0.20 | 60.20 | | |
| 6th Cross Road | | 1 | 110.0 | 5.12 | 0.20 | 112.64 | | |
| | | | | | Total Qty : | 328.04 | | |
| | | | | | Shedule B Qty : | 112.50 | | |
| | | | | | Qty executed up to 125% | 140.63 | 2091.34 | 294094.69 |
| | | | | | Qty executed Above 125% | 187.41 | 2091.34 | 391940.12 |

| Rate Analysis | |
|---|---|
| Basic Rate | 1888.00 |
| Area Weightage 6% | 113.28 |
| SuB Total | 2001.28 |
| T P Charges 4.5% | 90.0576 |
| **Total** | **2091.34** |

KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision P 158 I 21.6

| Chamber Corrections | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3rd Main Road Kempegowda Nagara | Sqm | 1 | 384.0 | 2.00 | | 768.00 | | |
| 5th Cross Road | | 1 | 101.0 | 5.40 | | 545.40 | | |
| 6th-A Cross Road | | 1 | 79.4 | 5.30 | | 420.82 | | |
| 7th Cross Road | | 1 | 111.0 | 4.70 | | 521.70 | | |
| Eagle Bakery Road | | 1 | 301.0 | 2.00 | | 602.00 | | |
| 6th Cross Road | | 1 | 110.0 | 5.15 | | 566.50 | | |
| | | | | | Total Qty : | 3424.42 | | |
| | | | | | Shedule B Qty : | 750.00 | | |
| | | | | | Qty executed up to 125% | 937.50 | 27.69 | 25959.38 |
| | | | | | Qty executed Above 125% | 2486.92 | 27.69 | 68862.81 |

| Rate Analysis | |
|---|---|
| Basic Rate | 25.00 |
| Area Weightage 6% | 1.5 |
| SuB Total | 26.50 |
| T P Charges 4.5% | 1.1925 |
| **Total** | **27.69** |

KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading; premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and ialignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision P 160 I 17.6

| Chamber Corrections | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3rd Main Road Kempegowda Nagara | Sqm | 1 | 384.0 | 2.00 | 0.05 | 38.40 | | |
| 5th Cross Road | | 1 | 101.0 | 5.40 | 0.05 | 27.27 | | |
| 6th-A Cross Road | | 1 | 79.4 | 5.30 | 0.05 | 21.04 | | |
| 7th Cross Road | | 1 | 111.0 | 4.70 | 0.05 | 26.09 | | |
| Eagle Bakery Road | | 1 | 301.0 | 2.00 | 0.05 | 30.10 | | |
| 6th Cross Road | | 1 | 110.0 | 5.15 | 0.05 | 28.33 | | |
| | | | | | Total Qty : | 171.22 | | |
| | | | | | Shedule B Qty : | 62.50 | | |
| | | | | | Qty executed up to 125% | 78.13 | 5984.90 | 467570.31 |

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|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Qty executed Above 125% | 93.10 | 5984.90 | 557170.25 |
| Rate Analysis | | | | | | | | | | |
| Basic Rate | 5403.00 | | | | | | | | | |
| Area Weightage 6% | 324.18 | | | | | | | | | |
| SuB Total | 5727.18 | | | | | | | | | |
| T P Charges 4.5% | 257.723 | | | | | | | | | |
| **Total** | **5984.90** | | | | | | | | | |
| KSRRB M500-10.Providing and applying tack coat using 80/100 grade bitumen(VGlO) in boiler fitted with spray set distributor at the rate of 0.25 kg per sqm on the existing prepared bituminous surface (primed surface) cleaned with mechanical broom, complete as per specifications. Clause 503 of MORTH V revision P 159 I 21.10 | | | | | | | | | | |
| 3rd Main Road Kempegowda Nagara | **Sqm** | | 1 | 384.0 | 3.90 | | 1497.60 | | |
| 5th Cross Road | | | 1 | 101.0 | 5.40 | | 545.40 | | |
| 6th-A Cross Road | | | 1 | 79.4 | 5.30 | | 420.82 | | |
| 7th Cross Road | | | 1 | 111.0 | 4.70 | | 521.70 | | |
| Eagle Bakery Road | | | 1 | 301.0 | 5.12 | | 1541.12 | | |
| 6th Cross Road | | | 1 | 110.0 | 5.15 | | 566.50 | | |
| | | | | | | Total Qty : | **5093.14** | | |
| | | | | | | Shedule B Qty : | **2750.00** | | |
| | | | | | | **Qty executed up to 125%** | **3437.50** | **11.08** | **38087.50** |
| | | | | | | **Qty executed Above 125%** | **1655.64** | **11.08** | **18344.49** |
| Rate Analysis | | | | | | | | | | |
| Basic Rate | 10.00 | | | | | | | | | |
| Area Weightage 6% | 0.6 | | | | | | | | | |
| SuB Total | 10.60 | | | | | | | | | |
| T P Charges 4.5% | 0.477 | | | | | | | | | |
| **Total** | **11.08** | | | | | | | | | |
| Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.- do - using 40-60 TPH capacity HMP with mechanical paver grading II Cum (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) P 171 I 21.78.12 | | | | | | | | | | |
| 3rd Main Road Kempegowda Nagara | **Sqm** | | 1 | 384.0 | 3.90 | 0.04 | 59.90 | | |
| 5th Cross Road | | | 1 | 101.0 | 5.40 | 0.04 | 21.82 | | |
| 6th-A Cross Road | | | 1 | 79.4 | 5.30 | 0.04 | 16.83 | | |
| 7th Cross Road | | | 1 | 111.0 | 4.70 | 0.04 | 20.87 | | |
| Eagle Bakery Road | | | 1 | 301.0 | 5.12 | 0.04 | 61.64 | | |
| 6th Cross Road | | | 1 | 110.0 | 5.15 | 0.04 | 22.66 | | |
| | | | | | | Total Qty : | **203.73** | | |
| | | | | | | Shedule B Qty : | **110.00** | | |
| | | | | | | **Qty executed up to 125%** | **137.50** | **7066.02** | **971577.75** |
| | | | | | | **Qty executed Above 125%** | **66.23** | **7066.02** | **467951.41** |
| Rate Analysis | | | | | | | | | | |
| Basic Rate | 6379.00 | | | | | | | | | |
| Area Weightage 6% | 382.74 | | | | | | | | | |
| SuB Total | 6761.74 | | | | | | | | | |
| T P Charges 4.5% | 304.278 | | | | | | | | | |
| **Total** | **7066.02** | | | | | | | | | |
| KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 P 182 I 24.15 | | | | | | | | | | |
| 3rd Main Road Kempegowda Nagara | **Sqm** | | 2 | 384.0 | 0.10 | | 76.80 | | |
| 5th Cross Road | | | 2 | 101.0 | 0.10 | | 20.20 | | |

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|---|---|---|---|---|---|---|---|---|
| 6th-A Cross Road | | 2 | 79.4 | 0.10 | | 15.88 | | |
| 7th Cross Road | | 2 | 111.0 | 0.10 | | 22.20 | | |
| le Bakery Road | | 2 | 301.0 | 0.10 | | 60.20 | | |
| 6th Cross Road | | 2 | 110.0 | 0.10 | | 22.00 | | |
| | | | | | Total Qty : | 217.28 | | |
| | | | | | Shedule B Qty : | 125.00 | | |
| | | | | | **Qty executed up to 125%** | **217.28** | **475.20** | **103251.46** |
| | | | | | **Qty executed Above 125%** | **0.00** | **475.20** | **0.00** |
| Rate Analysis | | | | | | | | |
| Basic Rate | 429.00 | | | | | | | |
| Area Weightage 6% | 25.74 | | | | | | | |
| SuB Total | 454.74 | | | | | | | |
| T P Charges 4.5% | 20.4633 | | | | | | | |
| **Total** | **475.20** | | | | | | | |
| KSRRB M100-1 Loading and Unloading of Stone Boulder I Stone aggregates /Sand/ Kanker I Moorum. KSRRB M100-1: Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 P 136 I 17.10 | | | | | | | | |
| Qty vide Item No 2 | | | | | | 492.05 | | |
| | | | | | **Qty executed up to 125%** | **492.05** | **129.37** | **63657.03** |
| | | | | | **Modified Estimate Total Amount** | | | **3537143.18** |

**Certificate:**

| | |
|---|---|
| 1.Total Sanctioned Tender Amount | **Rs. 35,68,663.00** |
| 2.Total cost of the project after Work slip and EIRL | **Rs. 35,37,143.18** |
| 3.Net Savings Amount of Work Slip & EIRL | **31519.82** |
| 4.Total % Savings to the Tendered Amount | **0.883%** |

5.Estimate is perpared Making Use of essential Item of work as per site Conditions in safest way of Execution

6..This work is not included in any other program of work

Assistant Engineer
Ward No.15
BBMP

Assistant Executive Engineer
Dasarahalli Sub Division
BBMP

Executive Engineer
Dasarahalli Division
BBMP

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palik
Dasarahalli Division, Bangalore-73

Technically Sanctione for Rs. 35.37 lakhs/-
Rs. In words. Rs. Thirty five lakhs Thirty seven thousand one hundred & Rupees only
Under ..... 3726 .....
Job Code No 015-20-000106
Registered as CE No. 43/2021-22 subject to conditions containing in Enclosed Memo No CE/02/TS/43/2021-22 dt 18/2/2021

AE/JE: TA CE(D)

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